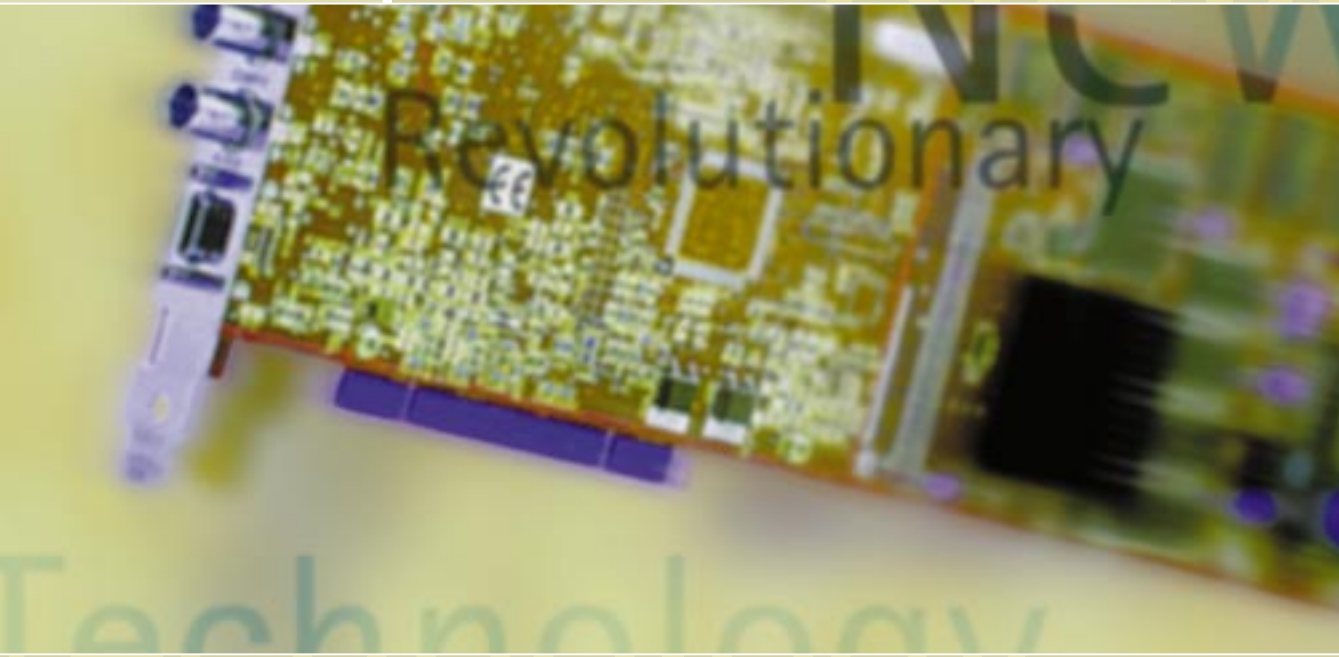
MPEG MovieMaker™ 200

MPEG-1&2 Family of Encoders



MPEG MovieMaker 200, Optibase's **new generation** of MPEG and Dolby Digital™ **encoding hardware** uses sophisticated technology to provide you with **top quality** audio and video encoding on a **single board.**

optibase

New Revolutionary Platform

The MPEG MovieMaker 200 family offers the full range of video and audio interfaces, video resolutions, audio encoding formats and MPEG multiplexing capabilities, all on a single encoding board. MPEG MovieMaker 200 boards are based on a unique modular design that allows for numerous configurations: MPEG MovieMaker 200 uses a daughter board to separate analog and digital processing, with all video and audio capturing taking place on the daughter board. With this approach Optibase can offer various configurations that can be targeted at different markets, applications, bandwidth and price point requirements.

The MPEG MovieMaker 200 family covers the entire audio and video encoding spectrum, from MPEG-1, through MPEG-2 Half D-1, to high-end MPEG-2 encoding. MPEG MovieMaker 200's video encoding circuit is based on the C-Cube DVXpert video-encoding chip, giving you the full benefit of real-time variable bit rate (RT-VBR), lower delays and unsurpassed quality.

MPEG MovieMaker 200's audio encoding circuit is based on the powerful Motorola DSP chip that enables linear PCM capturing, MPEG-1 layer 2 audio and two-channel Dolby Digital encoding.

Pristine Video and Audio Quality

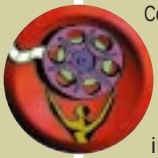
The MPEG MovieMaker 200 family uses state of the art video components to provide top quality. MPEG MovieMaker 200 offers several video interfaces, starting with broadcast level 9 bit A/D and going up to digital video interface (SDI). For professional DVD title creation and broadcast quality applications, Optibase offers digital and balanced analog audio with 20 bits per sample and a signal to noise ratio greater than 100dB. Unbalanced audio inputs are also available for video networking applications. To cut production time significantly, MPEG MovieMaker 200 comes with decode-while-encode capabilities and audio and video preview.

MPEG MovieMaker™ 200

Optional Software Packages and Features

Optibase's Customer First approach to digital video creation allows you to choose the encoding features you need and combine them with several software packages, so that the package you buy fits your application requirements exactly. Under Customer First, you can configure any number of hardware and software combinations to meet a wide variety of applications, bandwidths and price point requirements. You can start with a base platform and build features from a wide variety of options.

The following optional software packages are available:

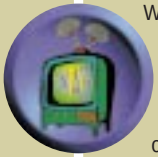


For Video Publishers and Content Creators:
MPEG Composer™ 200

MPEG MovieMaker 200 boards, together with the award-winning MPEG Composer 200 encoding management application, is a powerful video publishing solution that allows users to distribute video titles on DVD, SuperVCD, Video CD and CD-ROM discs. MPEG Composer 200 supports VTR device control for frame accurate encoding. It also includes MPEG Organizer™, a comprehensive batch-encoding tool that lets users encode multiple files easily and efficiently.

For Application Developers and System Integrators:
Progression™

Developers who want to develop digital video-based applications can subscribe to Progression, Optibase's developers support program, and benefit from specially developed software tools and software development kits. The developers' tools provide complete control over MPEG and streaming properties through a C/C++ interface or DirectShow filter architecture.



For Networking System Integrators:
MPEG ComMotion™ UDP

When controlled by MPEG ComMotion UDP, MPEG MovieMaker 200 boards become a sophisticated networking package that supports the DVB (Digital Video Broadcasting) protocol and enables the transmission of video over digital networks, from IP multicasting over LAN and Intranets to ATM and satellite networks. MPEG ComMotion UDP tools include a transmission and receiver application as well as ActiveX development tools that jump-start the development needed to set up transmission applications.

MPEG MovieMaker™ 200

MPEG MovieMaker 200 with PB-5

MPEG MovieMaker 200 with PB-10

Technical Specifications

Standard Compliance	ISO/IEC 11172 (MPEG-1), ISO/IEC 13818 (MPEG-2)	

Input/Output Signal

	PB-5	PB-10
Video Input	NTSC & PAL Composite Video (BNC), S-Video (Mini-DIN)	NTSC & PAL Composite Video (BNC), S-Video (Mini-DIN) SDI (Serial Digital Input) (BNC)
Audio Input	Unbalanced Analog Stereo Line Input (RCA) Input Impedance: 10K Ω Frequency Response: 20 Hz - 20 KHz, +/- 0.25dB Sampling Frequency: 32, 44.1, 48 KHz at 20 bits per sample	Unbalanced Analog Stereo Line Input (RCA) Input Impedance: 300 Ω Balanced Analog Stereo (XLR) Input impedance: 600 Ω Digital AES/EBU (XLR) Input impedance: 110 Ω Frequency Response: 20 Hz - 20 KHz, +/- 0.25dB Sampling Frequency: 32, 44.1, 48 KHz at 20 bits per sample Audio gain control: -90dB to +30dB with 8dB level steps
Video Preview Output	NA	Composite Video (BNC) on an optional bracket
Audio Preview Output	NA	Dolby Digital Compressed (XLR) on an optional bracket

Output Streams

Bit Rates	150 Kbit/s - 5 Mbit/s MPEG-1 1.5 - 15 Mbit/s SP@ML 2 - 15 Mbit/s MP@ML	150 Kbit/s - 5 Mbit/s MPEG-1 1.5 - 15 Mbit/s SP@ML 2 - 15 Mbit/s MP@ML
Audio Bit Rates	32 - 384 Kbit/s MPEG-1	32 - 384 Kbit/s MPEG-1, 32 - 640 Kbit/s Dolby Digital
File Format	Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD	Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD
Audio Mode	MPEG-1 Layer 2 Mono, Dual Mono, Stereo, Intensity Stereo Linear PCM	MPEG-1 Layer 2: Mono, Dual Mono, Stereo, Intensity Stereo Dolby Digital 2-Channel: Stereo, Mono (Central) Linear PCM

Video Resolutions	Horizontal	720, 704, 640, 480, 352, 320, 176
	Vertical NTSC	480, 240, 112
	Vertical PAL	576, 288, 144
	Square Pixel NTSC	640x480, 320x240

Hardware

Function	PCI Single Board, Plug and Play, MPEG-1 & 2 Video and Audio Encoder
Video Encoding Engine	1 C-Cube MicroSPARC RISC Processor DVXpert
Power Consumption	16.8 W @ + 5 VDC, 1.22 W @ + 12 VDC, 0.48 W @ -12 VDC
Physical Size	Single slot full length PCI board: 312 mm x 106.7 mm, 12.28" x 4.2"

Minimum System Requirements

Pentium II 233 Mhz and higher

32 MB RAM

2 GB SCSI wide hard disk, 5 MB/s writing data transfer

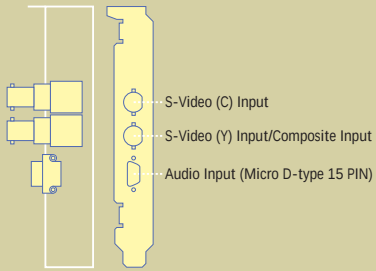
Windows Workstation NT 4.0 (or Windows NT 5.0 beta)

One full size PCI slot

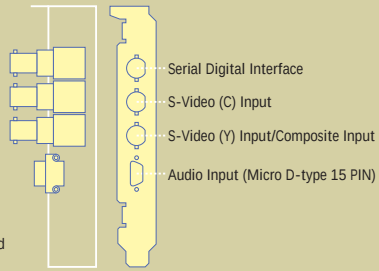
One free bracket (if using optional preview bracket)

CD-ROM and 3.5" diskette drive

PB-5



PB-10



Not all configurations are pre-built with all features. Please consult your regional Sales Manager for availability.

DOLBY DIGITAL

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